

# CHAPTER 15

# Computer Administration

#### 15. Computer Administration

# Introduction to Control Panel

Control panel is the main tool for configuring the computer system Most of the tools to configure the system come with the normal installation of Windows. However, others are placed in the Control Panel by other software or handware installation recorans

In Windows 10. Settings App available is substitute for Control Panel. But both Control panels as well as Settines Ann lossy been kent as there are few configurations which can be done using Control Panel only

To open settings. Select Start=>Click on Settings, following window will appear:



Figure 15 1 Settings Age Window



### Various conflicuration options in Settings Menu are:

- System: Display, notifications, apps, and power options
  - Devices: Bluctooth, printers, and mouse/keyboard
  - Network & Internet Manage Wi-Fi, Airplane Mode, and VPN
  - > Personalization: Change background images and colors
  - Accounts Settings for user accounts on this PC
  - Time & Language: Region, speech, and time options
- East of Access. Tools for the vision or hearing impaired.
- Privacy Control what your computer knows about you
   Update & Security Backup, restore, or update Windows

Traditional control panel menu can be accessed using methods shown in screenshots below:





Control penel cen also be pinned to Start Menu or Taskhar by Right clicking on Control Panel option available in All Apps of Start Menu.



Figure 15.4: Category View of Control Panel

- Various configuration options in Control Panel Menu are
- System and Security: Manage firewall, encryption, storage, and more
  - ➤ User Accounts Change system access permissions for users
  - Network and Internet Modify local network, internet, or sharing options
     Appearance and Personalization. Tweak acroen resolution and fonts
  - > Hardware and Sound: Device Manager and system sounds menu
  - Clock, Language & Region: Add a second language or input method

# Programs Manage desistor recorners and default file handlers

# Ease of Access: Adjust visibility, audio options, and toolitps



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# USBRUG TIP

There are overlapping between Control Panel and Settings Apps. When you are not exactly sure which menu you should use, just perform a quick soutch by typing benef description of setting you are looking for in Windows Shirt many Search option.

# QUICK REVIEW

- ➤ What is the use of Control Panel?
  ➤ How can you occess Control panel in Windows 10?
  - ➤ How is control panel different from Settings App?

# 15.2 Working on Control Panel

The applots listed below are components of the Microsoft Windows control panel, which allows users to define a range of settings for their computer, monitor the status of devices such as printers and modems, and set up new hardware, programs and network connections.

# 15.2.1 System and Security

# 15.2.1.1 Security and Maintenance

It gives the user access to the tabult Wardows security components, as well as providing information that are creating mirrors under such Access to the tabulate security confirmation of the such as the security confirmation and the such as the security components are secured to Windows Update, where users are specify whether the component whold their for manying purposes participated to workflow through their whole Vigidate goal, and options for information, and options for information, and options for information information and their security settings. It also encoded that is to income strong and their security settings and their security settings are such as the security settings.

### 15.2.1.2 System

This is used to view and change over system settings a user can for instan

- Display general information on the user's machine such as the amount of RAM, CPU speed and type: the version of Windows the content is using another manufacturer.
  - Fift the computer name in a network workersum
- Manage and Configure hardware devices, and view information such as the manufacturer, user access and driver version of any hardware device installed on the system via Device Manager.
- Enable/Disable system features such as automatic updates and System restore monitoring
- Specify advanced features such as performance logs, virtual memory settings and rounting profiles.







# 15.2.1.3 Administrative Tools

It contains tools for system administration, including security, performance and service configuration. These are larks to various configurations of the Microsoft Management Console such as the local services last and the Event Viewer.

Organiza *				
© female	Hare	Date modified	Type	Size
III Destrop	@ Component Services	34-07-2909-30-09	Defeat	21
à fewfest	dif Computer Management	14-87 3009 3555	Sherout	21
% Secret Faces	SE Earl Source (2000)	14-97 3969 5855	Stetos	21
	(III Event Viewer	14-67 2006 (0.12	Shednet	
Si Librarius	M. occurer	14-67 3009 18:03	Shelout	21
@ Occuments	St. Lead Security Petror	68-84 JR15 25.57	Steened	21
g) Mare	© Ferfermance Monitor	14-67-2009 (6.3)	Stotost	21
in fridays	Si Prot Management	08-04 2015 25-07	Dorloat	21
B Video	di Service	14-97 2009 28 10	Steened	21
	50 Scores Configuration	14-87 2009 (6.30	Steened	21
all Harmoney	(2) Test Scheduler	14-67 3000 (0:02	Statical	21
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A Computer	SE Windows Memory Discovering	14-87 3009 (830)	Stetlog	21
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### 15.2.2 Network & Internet

Displays and allows the user to edit or create network connections such as Local Area Networks (LAN) and internete ornections. It also offers troubleshooting functions in case the computer has to be reconnected to the network.



Figure 15 9: Network & Internet Prese

### 15.2.2.1 Internet Options

Allows the user to change the way the computer manages internet connections and browser settings for Internet Explorer, it has several bags specifying different attributes,

- General This specifies the homepage and color schemes and allows the user to delete internet usage history.
- Security & Privacy These specify whether the computer should allow websites to indectake certain processes and download ecokies, this purel also gives necess to the unbull pay-up blocker (Windows XP SP2 and lister) and the pinding controls (Internet Explorer 7).
- Content Allows the parental controls and auto complete to be configured and also specifics how to deal with certificates.
- Connections, Programs and Advanced - These give access to other aspects of internet settings such as the definit modern correction and omail client, proxy settings and other advanced configurations.



# 15.2.3 Hardware and Sound

Devices, Printers and Sound settings can be managed in this menu.



### 15.2.3.1 Power Options:

Includes octions to manage energy consumption such as:

- Specify how long it takes to switch off the display and hard drives and how long it takes for the system to enter standby, if at all
- To decide what to do when the computer's on/off button is pressed, such as whether to shut down or to enter standby...
- Whether to allow Hibernation (some systems become unstable when restarting).
- Allows the user to configure UPS (if available)



# 15.2.4 Programs

This section allows the user to ununstall/repair software installed on the system in a number of ways.

- Allows meets to uninstall and change existing software packages, as well as indicating how
  much space individual programs take and how frequently they are used.
   Allows users to manually unstall software from a CD-ROM or Florey Disk, and install add

### one from Windows Undate

Allows users to change which Windows components are installed, via the Windows actup Wazard, which includes Internet Explorer, Windows Media Player and Windows



Figure 15.13: Programs and Fentures

# 15.2.5 User Accounts

This allows the user to configure their account and other accounts used in the system, should they allowed principles. They can thought they affected principles from seammes and password, disciplings from yearmes and password, disciplings from seammes and password, disciplings from an individual password and the password and th

# 15.2.6 Appearance & Personalization

Allows the user to change the display characteristics of their computer,

- Allows users to change the desktop background (wallpaper) to a picture of their choice and specifies how it should be shown.
- Allows the user to change or disable the screensaver, and specify how long it takes to

Allows the user to specify the cuber with the same and th

change the My Computer and Recycle Bin soons.

Allows the user to change the screen resolution and color quality, and provides trouble shooting advice for displays.

Figure 15 16: Display in Control Parel

### 15.2.6.1 File Explorer Options



This item allows for configuration of how folders and files are presented as Windows Explorer, More specifically it allows the user to specify general settings like whether folders open in a new window or the existing window and whether the common tasks pane is shown, as well as more advenced tasks such as whether windows should hide critical system files. and whether to show file extensions. It is also used to modify file type associations in Windows, i.e., which program opens which type of file and other settings like actions for each file type and the file extension.

# 15.2.6.2 Taskbar and Start Menu:

Allows the user to change the behavior and appearance of the task bar and Start Menu,

- Specifies whether to use Windows XP/Vista or Classic 9x/Me styles on the taskbur and start trems
- Whether the taskbur should Auto-Hide.
- Whether to show the clock in the notification area.
- Allows the user to manage the tray scorts.

# Advanced options such as whether to show Printers & Faxes in the start menu and whether to display My Documents as a menu or as a link to a new window

# 15.2.7 Clock, Region & Language Options

Allows user to change the date and time stored in the machine's BIOS, change the time zone, select language, change location and specify whether to synchronize the date and time with an Internet Time Server and which server so use



#### .

# 15.2.8 Ease of Access Center

This option allows users to configure the accessibility of their PC. It comprises various settings primarily aimed at differently abled users or hardware problems.



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Figure 15.17: Else of Access Center

### Using those settings:

- Narrator and Magnifice may be enabled.
- Onscreen keyboard and contrast setting may be changed
- The behavior of the keyboard can be modified, this is atmod at people who have difficulty pessing key-combinations, or pressing a key just once (Sticky Keys, Filter Keys and Toggle Keys)
- > The pointer can be controlled using the keyboard (Mouse Keys)

# QUICK REVIEW How can we use power opisous to save energy? Using which opison can we minimal list of ware?

# 15.3 Software Installation

You are capable of doing a lot with the programs and features included in Windows 10, but may went to install other programs. In Windows 10, typically programs are installed from a CD or



DVD, from the Internet, or from Windows Store. If you want to uninstall or make changes to a program already installed on your computer, you can do it through Control panel or Settings App.

# 15.3.1 To install from a CD or DVD

lasert the disc into your comparer, and then follow the instructions on your screen. If you're prompted for an administrator password or confirmation, type the password or confirmation, there programs installed from CDs or DVDs open an installation wizzed for the program automatically in these cases, the artin ruley disable box

annears and you can choose to run the wrant.



Pigure15 18: AutoPlay Settings

If a program doesn't begin installation automatically, check the information that came with the program. This information will likely provide instructions for installing the program manually. If you can't access the information, you can also betwee through the disc and open the program-scrapfile, usually called Script never that till exe.

If install doesn't start automatically, check your AutoPlay settings. In Search, other Autoplay settings and select AutoPlay settings Make sure AutoPlay is on

You can also choose default actions for runnovable threes an

# 15.3.2 To install from Internet

You should download and install programs only from trusted publishers and retail websites

- In your web beowser select the link to the program
- Select Seve or Save As to download the program
  - Most antivirus programs like Windows Defender will sean the program for viruses during download
- d) To install the program immediately, click open or run, and then follow the instructions on your screen. If you're prompted for an administrator password or confirmation, type the password or provide confirmation.
- 5) To install the program later, click Save, and then download the installation file to your computer. When you're ready to install the program, double-click the file, and then follow the instructions on your screen. This is a safer onton because you can scan the installation.

file for varieses before you proceed. The programs designed to work with Windows are usually very easy and methodical to install.

# 15.3.3 To install from Windows Store

To install a program or application through windows store, go to Store using Store tile (which looks like a shepping bug) on Taskbur or Start Menu. Search for required program and install.

# 15.3.4 Installation Process of a Program

The programs dougsed to work with Windows are usually very easy and methodical to install Take an example of VLC media player in motifling as software:

Please with white fairup is loading... or producing delate 59%

Figure 15 19 Scape citations







Figure 15.23: Specifying Location of Installation



Figure 15 24. Completing the Setup



uncheck each programs during metallation

# OUICK REALESM

- ➤ What are different sources of installation in Windows 10? ➤ What is the need of installing program or software? ➤ Where is the installed program saved on Computer?

### 15.4 Managing Resources

You can manage resources using administrative tools, Administrative Tools is a folder in control panel that commins tools for system administrators and advanced users. The tools in the folder might vary depending on which version of windows you are using

Open Administrative Tools by elicking the Start humon Picture of the Start humon, and then elicking Control Panel. In the search box, type administrative tools, and then elick Administrative Tools.

Many of the tools in this folder, such as Computer Management, are Microsoft Management Conside (MMC) snap-ins that includes their own help topics. To view specific help for an MMC tool, or to snarch for an MMC snap in that you don't see in the following list, open the tool, click the Help mena, and there lisk Help Troops

Some common administrative tools in this folder include:

Component Services. Configure and administer Component Object Model (COM) components Component Services is designed for use by developers and administrators

Computer Nanagement Management Services and Services Serv

Figure 15:25 Computer Management Interface

# - QUICK REAVE

➤ Which devices can be manage during Device Manager?

# 15.5 Creating User Accounts

Windows 10 allows you to create multiple user accounts, so that each user can have a separate user account with unique settings and preferences, such as a desktop background or screen saver. User

accounts control which files and programs users can access and what types of changes users can make to the converter.

You can have a single account on your computer that everyone could use. But having multiple accounts has some advantages. If each use has his so her own account, then each person will have he has the robot person also will be a like to choose a specific dealing background, along with other person through the prices also will be able to choose a specific dealing background, along with other personalization features. In addition, perents well backback used Parental Journals of most other accounts.

Before you start making new user accounts, it's important to understand the two types of accounts.

- Standards: Standard accounts are the basic accounts you use for normal, everyday tasks: As a Standard user, you can do just about anything you would need to do, such as renating, software or personalizing your disking. Also, Parenail Centrels can be placed on Standard accounts.
  - Administrator: Administrator accounts are special accounts that are used for miking certain changes to system settings or managing other people's accounts. They have full access to every setting on the computer. Every computer will have at least one Administrator account.

# To go to your user accounts:

- 1. Go to Control Panel
- 2. Click "Change Account Type"



Figure 15-26: Managing multiple accounts

### To create a new account

- 1. From the Accounts page, click Family & Other Users
- Select Add someone else to this
- 3. At the bottom of the page, select I don't have this person's sign-m information
  - 4 At the bottom of the next page, select Add a user without a Micro soft account
  - Enter a name for the new account. If you want this person to sign in with a password, enter and verify the password, add a password hint, then select Next.



add a password or make other changes to the account's settings using Setting App Similarly picture, sign-in options etc. can also be changed



Figure 15 27: Changing Picture for Accou

# QUICK REVIEW

- How is Administrator User account different from Standard
- ► How can one change personed for the user account?

  ► How can one add new user account for must?

# 15.6 Working on Firewall

A finewall can help prevent backers or malicious software (such as worms) from gaining access to your computer through a notwork or the liniernet. A finewall can also holp stop your computer from sending malicious software to other computers.

Firowell is a device that filters packets either corning into or going out of a device. Filtering can be based on IP, TCP, UDP and other criteria relating to a packet as well as authentication.

Firewalls have several types like Pocket filtering, Straeful, Proxy.

Packet filtering makes each filtering decision on a packet by packet basis without regard to

### provious packets in any direction

- 2) Stateful firewall keeps track of packet flows and filters based on flow information.
- Proxy firewall works on a per application basis. User sends to proxy, proxy creates new packet sourced from proxy.

Firewall can be Network-based or host-based. Network-based runs a neuter, runth-tayer neith or dedicated firewall. Host-based firewall run on computer maning OS such as Windows 10 or UNIX Firewall can be Hardware or software firewall. Hardware firewall chassas designed for specifically to operate as a firewall; highest performance.

You can customize four settings for each type of network location in Windows Firewall. To find these settings, follow these stems

- Open Windows Firewall by clicking the Start button and then clicking Control Panel. In the nearch box, type firewall, and then click Windows Firewall.
- In the left pene, click Turn Windows Firewall on or off. If you're prompted for an administrator password or confirmation, type the password or provide confirmation
  - Note If your PC is connected to a network, network policy settings might prevent
    you from completing these steps.



Figure 15 28: Windows Figure II

### Turn on Windows Firewall

This setting is selected by " definit When Windows Firewall is on most programs are blocked from communicating through the firewall. If you want to allow a program to communicate through the firewall, you

Figure 15:29 Cristograps settings for each perwork

# can add at to the list of allowed programs Turning off Windows Firewall

You shouldn't turn off Windows Firewall unless you have another firewall turned on Turning of FW indows Firewall might make your computer (and your network, if you have one) more vulnerable to damage from har kees and malicious software.

You can modify the firewall settings for each type of network location

You can change the advanced settings of windows firewall by using Windows Firewall with Advanced Security are from search menu.



# QUICK REAVIEW

- What is the figuration of a firewall?
- How to allow some programs as exceptions to Windows firewall? ► How does a firewall week?



# (Multiple Choice Questions)

In a Computer, If the displayed system S. Printer can be installed on a computer time and date is incorrect, you can reset it using which of the following control using which of the following control game/jettings.options?

a Tasknew a Control Panel->Hardware & h Calendar Sound->Devices and Printers->Add a

c. Start Button. h. Settinger>Devices=>Printers. &

d Settings/Control panel

Senters → Add a printer or senter

In Windows 10, a software earnot be

Both a midb

d Settings/Control panel

a Directly from internet

a Directly from internet

6 A utility that can be used to minimize the

h. From Windows store number of fragmented files and improve e. From CD/DVD/Pro drive the access speed:

d Using wood file a Disk space b Defragmenter

3 Which of the following is not an e. Scandisk d. Double space administrative tool available in Windows 7 Ease of Access center allows you to 10?

n ODBC a Namoor and Magnifier

b. Disk Clearup

b. Mouse Keys

c Windows firewall with advanced

c. Onserven Keyboard and contrast settings

d All of above
d Cortans
8. Which of the following is not a type of

4 Aproxy firewall filters at the Firewall?
a physical layer

a proxy frewall
b application layer b Stateful Firewall
c data link layer c State Firewall

d. network layer d. Packet Filtering firewall

9. Which of the following is true in reference 10. Which of the settings can be configured of a device driver

using control nancl or settings are in windows 10?

a. A program that controls a particular type of device that is attached to your computer

a Appearance and Personalization (Desktop background, screensaver,

h. Provides a handware interface to devices.

themeete) h Network and laternet

c. It is required for all kind of installations in operating system

d. All of the above

c. Clock, Region and Language

d All of the above